

RAW SEQUENCE LISTING

DATE: 04/05/2001

PATENT APPLICATION: US/09/813,320

TIME: 12:09:52

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\04052001\I813320.raw

ENTERED

4 <110> APPLICANT: ZHANG, Hongyu et al.
 6 <120> TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
 7 NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
 8 AND USES THEREOF
 10 <130> FILE REFERENCE: CL001172
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/813,320
 C--> 12 <141> CURRENT FILING DATE: 2001-03-21
 12 <160> NUMBER OF SEQ ID NOS: 4
 14 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 2195
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Human
 21 <400> SEQUENCE: 1
 22 autggatttg actccgggtg ggaaagcggg tgtctagaag tgggtctaatt gggaagagaa 60
 23 tctctggttct aaaagaggat gctctgccac aaagagcggc tcgcgcgctg gcctgggctc 120
 24 tagccgagga gagatcccg gagaactcca gagctccggg ggagcgcctc tcggaagacc 180
 25 ggggcccaaca tgcctgtgcy cagggggcat gtggcaccac aaaatacatt tctggggacc 240
 26 atcattcgga aatttgaagg gcaaaaataa aaattttatc ttgcaaatgc cagagtgcag 300
 27 aactgtgcca tcaatttatt caacgatggg ttctgtgaga tgactgggtt ctccaggcca 360
 28 gatgtcatgc aaaagccatg cactctgcac ttctccatg gacccgagac caagaggcat 420
 29 gatattgccc aaattgccc ggcattgctg gggtcagaag agaggaaaat ggaggtcacc 480
 30 tactatcaca aaaatgggtc cacttttatt tgtaaacact acataattcc agtgaaaaac 540
 31 caagaggggc tggtatgat gttcctcatt aattttgaat atgtgacgga taatgaaaac 600
 32 gctgccaccc cagagagggt aaacccaata ttaccaatca aaactgtaaa ccggaaattt 660
 33 ttggggttca aattccctgg tctgagactt ctcaattaca gaaagcagtc cttaccacaa 720
 34 gaagaccccg atgtgggtgt catcgattca tctaaacaca gtgatgatc agtagccatg 780
 35 aagcatttta agtctctac aaaagaaaag tgcagccctt ctgaagcaga tgacacaaaa 840
 36 gctttgatac agcccagcaa atgttctccc ttggtgaata tatccggacc tcttgacct 900
 37 tctctccca aaaggcaatg ggaccgactc taccctgaca tgcctgcagc aagttccca 960
 38 ctgtcccatc ccagatcaag ggaaagctta tctagtatac ggagagcacc ttccgtccat 1020
 39 gatatagaag gattcggcgt ccaccccaag aacatattta gagaccgaca tgcagcga 1080
 40 gcaaatggtc gcaatgtcaa agtttcaagt tcttgatgg caggggggac ttttaatcat 1140
 41 atcaagtcac gctcctggg atccacatca gattcaaaac tcaacaaata cagcaccatt 1200
 42 aacaagatc cagagtcac tctgaattt tcagaggcca aaactgagaa aaagaattca 1260
 43 taactctct cttcagataa aaccattatt gaccccaagg tttaagatcg aacacacaa 1320
 44 gtgaactgag aagtgaccca ggttctctct ttaggagcag atgtctacc tgaatacaaa 1380
 45 ctgcaqacac cagcattcaa caagtttacc atattgcaat acagcccttt caaggcagtc 1440
 46 ttggaactgc ttatctctgt gttggtcata tacaactgcta tatttactcc ctactctgca 1500
 47 gcttctctcc tcaatgacag agaagaacag aaaagacgag aatgtggcta ttcttgtagc 1560
 48 cctttgaatg tggtagactt gattgtggat attatgttta tcatagatat ttttaataaa 1620
 49 ttcagaacaa catatgtaaa tcagaatgaa gaagtggtaa gtgatccgc caaaatagca 1680
 50 atacactact tcaaggctg gttctctgatt gacatgggtt cagcaattcc ttttgacttg 1740
 51 ctgatttttg gatcaggttc tgatgaggtt a-gaactgctt aagattctta ttttctgaaa 1800
 52 gattgcaatt ataaaagtga atctatitta actgcaaaaa gaagaattgc tttgcaagct 1860
 53 gctctctctc gctctctctc gctctctctc gctctctctc gctctctctc gctctctctc 1920

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/813,320

DATE: 04/05/2001

TIME: 12:09:52

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\04052001\I813320.raw

```
55 attctttacc caccaaatta aacttggaaa caagtggtec atagcacaca gcacattccc 2040
56 aggattttaa atctctactt attaacttea cgggtgtaaa actctcaaatt attaatgtatg 2100
57 tctctgtttt tottaactca ttgttaaggg tttagacacg cagagatttg gtttttttgt 2160
58 tcaaattatt*gtgaagaggg ccccttttc gaaat 2195
60 <210> SEQ ID NO: 2
61 <211> LENGTH: 530
62 <212> TYPE: PRT
63 <213> ORGANISM: Human
65 <400> SEQUENCE: 2
66 Met Pro Val Arg Arg Gly His Val Ala Pro Gln Asn Thr Phe Leu Gly
67 1 5 10 15
68 Thr Ile Ile Arg Lys Phe Glu Gly Gln Asn Lys Lys Phe Ile Ile Ala
69 20 25 30
70 Asn Ala Arg Val Gln Asn Cys Ala Ile Ile Tyr Cys Asn Asp Gly Phe
71 35 40 45
72 Cys Glu Met Thr Gly Phe Ser Arg Pro Asp Val Met Gln Lys Pro Cys
73 50 55 60
74 Thr Cys Asp Phe Leu His Gly Pro Glu Thr Lys Arg His Asp Ile Ala
75 65 70 75 80
76 Gln Ile Ala Gln Ala Leu Leu Gly Ser Glu Glu Arg Lys Val Glu Val
77 85 90 95
78 Thr Tyr Tyr His Lys Asn Gly Ser Thr Phe Ile Cys Asn Thr His Ile
79 100 105 110
80 Ile Pro Val Lys Asn Gln Glu Gly Val Ala Met Met Phe Ile Ile Asn
81 115 120 125
82 Phe Glu Tyr Val Thr Asp Asn Glu Asn Ala Ala Thr Pro Glu Arg Val
83 130 135 140
84 Asn Pro Ile Leu Pro Ile Lys Thr Val Asn Arg Lys Phe Phe Gly Phe
85 145 150 155 160
86 Lys Phe Pro Gly Leu Arg Leu Leu Thr Tyr Arg Lys Gln Ser Leu Pro
87 165 170 175
88 Gln Glu Asp Pro Asp Val Val Val Ile Asp Ser Ser Lys His Ser Asp
89 180 185 190
90 Asp Ser Val Ala Met Lys His Phe Lys Ser Pro Thr Lys Glu Ser Cys
91 195 200 205
92 Ser Pro Ser Glu Ala Asp Asp Thr Lys Ala Leu Ile Gln Pro Ser Lys
93 210 215 220
94 Cys Ser Pro Leu Val Asn Ile Ser Gly Pro Leu Asp His Ser Ser Pro
95 225 230 235 240
96 Lys Arg Gln Trp Asp Arg Leu Tyr Pro Asp Met Leu Gln Ser Ser Ser
97 245 250 255
98 Gln Leu Ser His Ser Arg Ser Arg Glu Ser Leu Cys Ser Ile Arg Arg
99 260 265 270
100 Ala Ser Ser Val His Asp Ile Glu Gly Phe Gly Val His Pro Lys Asn
101 275 280 285
102 Ile Phe Arg Asp Arg His Ala Ser Glu Asp Asn Gly Arg Asn Val Lys
103 290 295 300
104 Val Ser Arg Ser Trp Met Ala Gly Gly Pro Phe Asn His Ile Lys Ser
105 305 310 315 320
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/813,320

DATE 04/05/2001

TIME 12:09:52

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\04052001\I813320.raw

106 Ser Leu Leu Gly Ser Thr Ser Asp Ser Asn Leu Asn Lys Tyr Ser Thr
107 • 325 330 335
108 Ile Asn Lys Ile Pro Gln Leu Thr Leu Asn Phe Ser Glu Val Lys Thr
109 340 345 350
110 Glu Lys Lys Asn Ser Ser Pro Pro Ser Ser Asp Lys Thr Ile Ile Ala
111 355 360 365
112 Pro Lys Val Lys Asp Arg Thr His Asn Val Thr Glu Lys Val Thr Gln
113 370 375 380
114 Val Leu Ser Leu Gly Ala Asp Val Leu Pro Glu Tyr Lys Leu Gln Thr
115 385 390 395 400
116 Pro Arg Ile Asn Lys Phe Thr Ile Leu His Tyr Ser Pro Phe Lys Ala
117 405 410 415
118 Val Trp Asp Trp Leu Ile Leu Leu Leu Val Ile Tyr Thr Ala Ile Phe
119 420 425 430
120 Thr Pro Tyr Ser Ala Ala Phe Leu Leu Asn Asp Arg Glu Glu Gln Lys
121 435 440 445
122 Arg Arg Glu Cys Gly Tyr Ser Cys Ser Pro Leu Asn Val Val Asp Leu
123 450 455 460
124 Ile Val Asp Ile Met Phe Ile Ile Asp Ile Leu Ile Asn Phe Arg Thr
125 465 470 475 480
126 Thr Tyr Val Asn Gln Asn Glu Glu Val Val Ser Asp Pro Ala Lys Ile
127 485 490 495
128 Ala Ile His Tyr Phe Lys Gly Trp Phe Leu Ile Asp Met Val Ala Ala
129 500 505 510
130 Ile Pro Phe Asp Leu Leu Ile Phe Gly Ser Gly Ser Asp Glu Val Arg
131 515 520 525
132 Thr Ala
133 530
136 <210> SEQ ID NO: 3
137 <211> LENGTH: 397658
138 <212> TYPE: DNA
139 <213> ORGANISM: Human
141 <220> FEATURE:
142 <221> NAME/KEY: misc_feature
143 <222> LOCATION: (1)...(397658)
144 <223> OTHER INFORMATION: n = A,T,C or G
146 <400> SEQUENCE: 3
147 ctagaagagc ctagagggtt tcattggctg cttacttitta aagtaaacct fattagccat 60
148 aaaattcaac attccagga acgtcttcg ttgattcat ttccattact ctgatattaa 120
149 agagggaagaa ttaattcgg tcttgatttt gtttagattt ggggggttgt ggatttgaa 180
150 cataaaagt gttatgctta cttcttggtt attgcaacc acctgattca ccttctaaa 240
151 cttaacctgc ttctggccc ttctcagttt tactctcatt atttcacttc agatttgaag 300
152 ctgtaactga gaaaataaga acccagctga ctcaaggcac aggcataga ggtaatgag 360
153 ctgcaagaac ccccccaat tctatcatgc aactgcattt gttgacagga atctctggac 420
154 ctttatctcc agcaggaaat gagagattca tctgtgttct gcttgagtag attgaaatct 480
155 tagcaaatte catttagaga aaggggcgtg gagaggggct attaggttca agggggtggg 540
156 tggggggaag ataacaaaa tgaagggaag agaaccaaga aaaactagaa aaacagcttc 600
157 aaaaacacgc ttctctggca cagcttgta catttatttt cctaagcttc caggaggact 660
158 atttgaacag aagtgtctgt atacctgag attcccacgc tggcagctt tgagaagcga 720

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/813,320

DATE: 04/05/2001
TIME: 12:09:52

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\04052001\I813320.raw

```
159 gaaggaagag gactctatct cgcctcttga accctttttt atctatatg agatggctcc 780
160 ttagagatgg tggaggagag cagaatgtgg ctagtgtgtt ccggaagatga gtggcatcgg 840
161 aggtcacagc caaggetggg aactctttagc cccacccacc ttttgttcc tccccctggc 900
162 gctcagcctc acctatttca aactcttttc ttcttttgta ctagtctctc gcaatctttg 960
163 gcctttctcat ctttggcctg ctcatcttcc tgcagccta cggcacctgg agaccaaata 1020
164 aacccccaat cttgcaaccc tccagggaat caggcagaaa ctgggcatgc tcagcggcac 1080
165 gggcagcttt cagtctttcc cgaggcggcg ctccagcctg ggcagggacc tgcgtgcaa 1140
166 ttcagttcgg gcttcggcac ccacctccgc tgaacccagg gatccgagct gcaacctgag 1200
167 gctaaatctg cacccttagg tggttcattg tcaatcttca acctgctgag cgcacacaga 1260
168 gcttacaat attctcatt aagaaactgt ttcccaact gtgttttcc tgcagctaa 1320
169 gggtctttag ctactgcggc gtgaggagct cagggaacgg gccctgtggc cgggtggcct 1380
170 agagatcac tccccagag agctgtttgt cactgagttt tggagatttc ttggtggt 1440
171 tccgtataag cagcttgag taatccgagc tgtggcggcg cccaagctac caagataaag 1500
172 agagcgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgt 1560
W--> 173 agggggagag ggcggggata gaaacagcaa cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1620
W--> 174 nnnnnnnnnn nnnnnnnnnn nggtagcgg gagaggcgg gaatagaacc ntcaaccccc 1680
W--> 175 cngaccccc agctcccttt tctctctctc ctccagcaa aaccggcaca agtcttccat 1740
176 cccccctcag ccattcctta ctgctctggg caaccgccag gttaaagcca tttgcactgg 1800
177 gaaatggggc ctgttttggg gaagagaaac agatcgattg ccttctgtac tccccgcctc 1860
178 ctccccacc ccccccaaca gctccctccc tcttccctc ccccgccacc tcccccaac 1920
179 ccgctcctt cccgttcccc acccccaaac cctctcacc cgggcagctc ggtgcgaggg 1980
180 cccctccgga aggtgagggg aatggattgg actccgggtg ggaagcggg tgtctagaag 2040
181 tgggtgctaat gggaagagaa ttctggttcc aaaagaggat gctctgccac aaagagcggc 2100
182 tgcgcgctg gcctgggctc tagccgagga gagatcccc ggagaactcc agagcttccg 2160
183 ggggagcct actcggaaga cgggggccc catgctgtg cgcagggggc atgtggcacc 2220
184 acaaaataca tttctgggga ccacattccg gaaatttgaa gggcaagta agttcgtttg 2280
185 ttctcttctc tgcctctcgc tttctgcctt gttagtgcac ttggcgtcca ccgcttccaa 2340
186 ggtggggaga ccggcaactc caggtctgt caacttaaga ggtgtgaaa ccgagccagg 2400
187 aggttcgaat ggcaagcggg gtgtctctct gatattaatt ttgatttaca ttttagatta 2460
188 cggctctcat tataggaggo aatttgatcc tctctacca ctgctccatt atctgccttg 2520
189 ctacttaatt tctactatt ctactatctt aaagggaac tcttaggata acatgggttt 2580
190 atattttgag gctgttttac tgtagacttt ctgaaagtcg gaagcagagc agaccatact 2640
191 attcgaacaa gagaatgtaa atggtagtag cgatgtaaat gactatgcaa actatatttt 2700
192 accttggtta aactgcacag cagtggatg acacggatgc ttgcttcta ttaatttata 2760
193 gaagctaaat tttgtattga atcaatgcaa atatatccta agcagggtaa tttggaaaag 2820
194 cagtatctca tctgtctggg ttcccgatgc aaatggctca ttattcaaaa taatattttc 2880
195 attcttttat tatcccttta aaatttccat ctgaaaattt aaaaattgaa gtgtaataag 2940
196 taaatccac aaagactgaa tgcacagaaa ttaattgttc tcatgtggac taaatataag 3000
197 gaataaattg ttctatata aatatattaa ttaaaaatcc tctatttgtt aaattatctt 3060
198 cggctcttct ttaaaactat attaatatct ttgtatgcca tataatttgc ggttatttca 3120
199 gcactgcatt taatgatgtg aggatctggt accttgcgta caaactaaac ttgtatctcc 3180
200 tcttccaaa tctatgtgga aatagtaaat caaatctgtg atgtaattt atagctctt 3240
201 tatattaaag attctccta ctacagaaaa ctccaaggat ctcccaaaqt aaaaagtaaa 3300
202 aggttgctat gatatttact gtgtgtgtgt aaataatttt cttttgggaa atatatatta 3360
203 tgaanaatgt aatctttgac ttgttgatg getattaaat atgaagtagt ttcattacta 3420
204 aagctagttg cctttgtttt taacatgagc tgtgtaacat gccfaagaga gatagggaga 3480
205 agccaaaagaa taataactac tttgagaag ttgtattcaa agggccaagg ttgaaatgag 3540
206 aaatctgaca actacagaat gtttcaactg ttgaacttga aaatatttac attacaatta 3600
207 aatgacattc tgaanaatct aatgggcagg tcttctctg aqgttccact aggaaccccc 3660
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/813,320

DATE: 04/05/2001
TIME: 12:09:52

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\04052001\I813320.raw

```
208 gcagttgcag ggcttgagaa ctagtctatt tgggaaatcc tattcttgca attttaagag 4720
209 tggttttctta ataactttctg ttaaaattac ttaggatcat taatctcaca tttaaagttt 4780
210 gtgggggtttc ttgtgttttc ttttttcata agggctggag agattagtaa tttggggagg 4840
211 cacctgcatt tcagagctct tattatgcaa caaattgctt cagtgttacg gagaatattg 4900
212 tgggaagcttt ttcaaagatg ccaactgttc ttcttattac agataaaaaa tttatcattg 4960
213 caaatgccag agtgccagaa tgtgccatca tttattgcaa cgatgggttc tgtgagatga 4020
214 ctgggtttctc caggccagat gtcctgcaaa agccatgcac ctgcgacttt ctccatggac 4080
215 ccgagaccacaa gaggcctgat attgccccaa ttgcccaggc attgctgggg tcagaagaga 4140
216 ggaaagtggg ggccacctac tatccaaaaa atggtaaaat tctctattt aggatctctt 4200
217 ctatttgatc ccattgaaaa gaaattttga ctattaaaag ttcattatgca aagaagccca 4260
218 aaatgtttcaa ttgtagatat atgttttgca tatagtattt tgggatccaa catatatggg 4320
219 tattctgatt agtggctctg tagaaacaat tttttctttg aataagggtc ctgtaatctc 4380
220 ttcaaaaagta cagtaacata atgtcactga ggttaaaatg ctacaaatca gtcttagatg 4440
221 ctcttttctt taaggaaatta gagaaagatg aacaatgtac tggcttgcatt ggtatgcatt 4500
222 tggtaggcga gaaatacaga tacagtgtta ctgttttgaa cttaaaaata ctccacaaag 4560
223 caaattttatg ttgaaaaacta tatctaaaaa taaaactatt acagttatgt ctcttggttc 4620
224 tttagctttta gttgataggc aacacctctt gtttcttttg ctctttctta caacattaag 4680
225 gatgataaat aggaactttt accttgatcc agttaacctg tgcattatca aacaataaag 4740
226 gctgtttatg tagtcaagat ttgtctgaa ataagaaatg tagaaaaaat tatgatactg 4800
227 tggagttatt agtattgatt tttataacta cagcaaatct ggcattctta acctaaagtc 4860
228 atacctcaac ttcgagggca acacctctg tcaaaacttg tatgagagcc gtaagagtta 4920
229 gacataatag ttctcttaaa aaattacaca tgtaatatag aggcctgctt taaatacaca 4980
230 atatatatgt aaatgaactc acatatataa atactcagat atgcccattt taagggtgat 5040
231 atatatatgt atattctga atattctata atctatatct atatatatct atatatctat 5100
232 acaaaatgat atttgtctag ggttaaaagg taaaattact ttaaaaaatt gaatgttata 5160
233 gtttaattttg ttgatatttc atcctcctct atttcttttt attccactaa cagaaattac 5220
234 ttaggcagag gggtagctgt tcagattttt agaaaaactc taagcttttg ataaatatgt 5280
235 agtgtgccat agcctatct atataatgac tcatcatttg gtatactaga gagaaaaaaa 5340
236 gacagcagga aaaaggtttc agtcttactc ttattttctt ataattcaat gtacaatgta 5400
237 caattcttaa ttactacatt ttctttaaca tgaagttgag tggttacaaa acattactaa 5460
238 aaacaggttt gtataacttt gtagtactct ggaatgaaag caatagtata cgtatcaaac 5520
239 agatagaaat tgtttttaaa gttcttccca tgtttctctt acctttcaat cagtagtgtt 5580
240 ggcatactag aaatagccta attgttctgt tgtcttgaaa acattttatt gattgagctc 5640
241 tcactaccca aatgtaactc atgtcttttg agtatctgat gccacaactc tggacgtttg 5700
242 gaataatttg aatgtctgac atttttttcc tattgaatat ttattatgat gccaacacag 5760
243 totatattgt ggtaacttca gtgaatgttg gtccatcttt ggctcattatg tttctagac 5820
244 catttcaggg atttttccaa ctcatagaat ttaagtatga cattaatctg gattgcccaa 5880
245 attgtcaca taactaggat atcttccaga gtgttttcaa gtaggagtta tctattacac 5940
246 ccgaagtggc gtagatgatg ttgaaagt tgcacatgt ggtgtgtaaa atgatctca 6000
247 aacactttba acaaaattta atagaatca cagatagat taattctat taattattg 6060
248 aattttctgt attgaacata ttagtata tgcacaaaca aatcttctca ttgaaagat 6120
249 tttcttggtt atatgcatta aaactccctt gtttccagaa agggactttt gatttagagg 6180
250 attgtttggg tataaagaaa ttaaccttta gtaaaaattt tgattctgtt gacttcaatt 6240
251 tcagatgtaa ctcagtcttc aaggatttga atatctttag cgttaactat aaaactctac 6300
252 tattttgctt taattgatat ggaaaacatg agaaaatggg tcaagcattt tctttttatt 6360
253 taattatttt agaaatatat tagtttgaat gaccttttta aacagtgatg acacagtcac 6420
254 acctgtttgc ttgaaagta ataaacttgt gttttggtg ctagtccaga taacttgat 6480
255 agaacttcca gttgtctctg gttttattta tatgacaact acaaaatcag tttagagctta 6540
256 tgaqatacaa attcttggat aqctcactct cttaqagata aqaactactc cagctactct 6600
```

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/813,320

DATE: 04/05/2001
TIME: 12:09:53

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\04052001\I813320.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:3051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:3052 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4853 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4860 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4862 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:4866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3